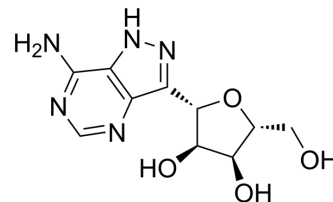


Formycin A

Cat. No.:	HY-102026		
CAS No.:	6742-12-7		
Molecular Formula:	C ₁₀ H ₁₃ N ₅ O ₄		
Molecular Weight:	267.24		
Target:	HIV; Nucleoside Antimetabolite/Analog; Antibiotic		
Pathway:	Anti-infection; Cell Cycle/DNA Damage		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	Formycin A (NSC 102811), a purine nucleoside antibiotic, is a potent human immunodeficiency virus type 1 (HIV-1) inhibitor with an EC ₅₀ of 10 μM. Formycin A shows antitumor and antiviral activities ^{[1][2]} .
IC₅₀ & Target	HIV-1 10 μM (EC ₅₀)
In Vitro	Formycin A (NSC 102811; 1 μM, 5 μM, 10 μM) antagonizes Zidovudine (AZT; a dideoxynucleoside chain terminator). MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Dapp MJ, et al. Discovery of novel ribonucleoside analogs with activity against human immunodeficiency virus type 1. *J Virol*. 2014 Jan;88(1):354-63.
- [2]. Zhang M, et al. Comparative Investigation into Formycin A and Pyrazofurin A Biosynthesis Reveals Branch Pathways for the Construction of C-Nucleoside Scaffolds. *Appl Environ Microbiol*. 2020 Jan 7;86(2).

Caution: Product has not been fully validated for medical applications. For research use only.

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